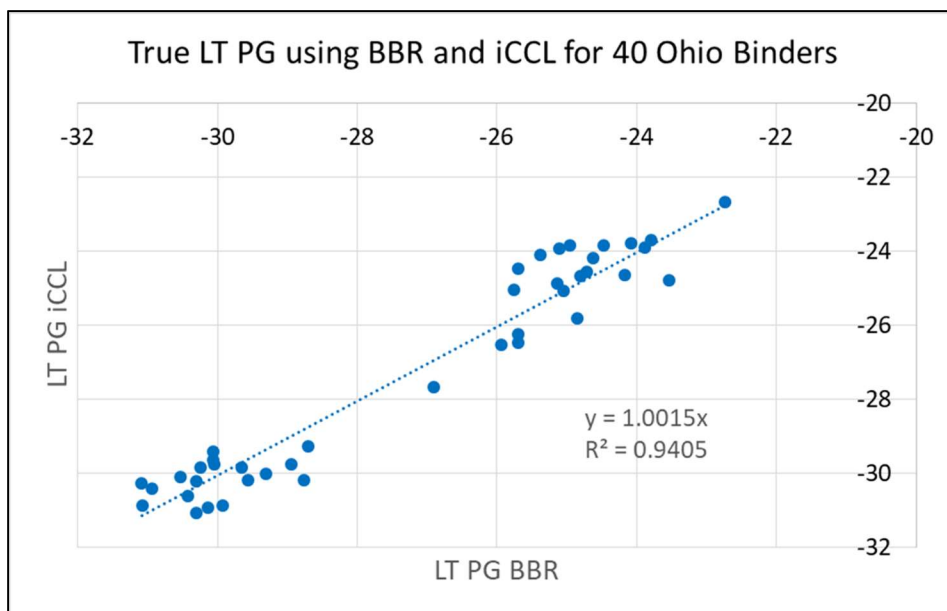
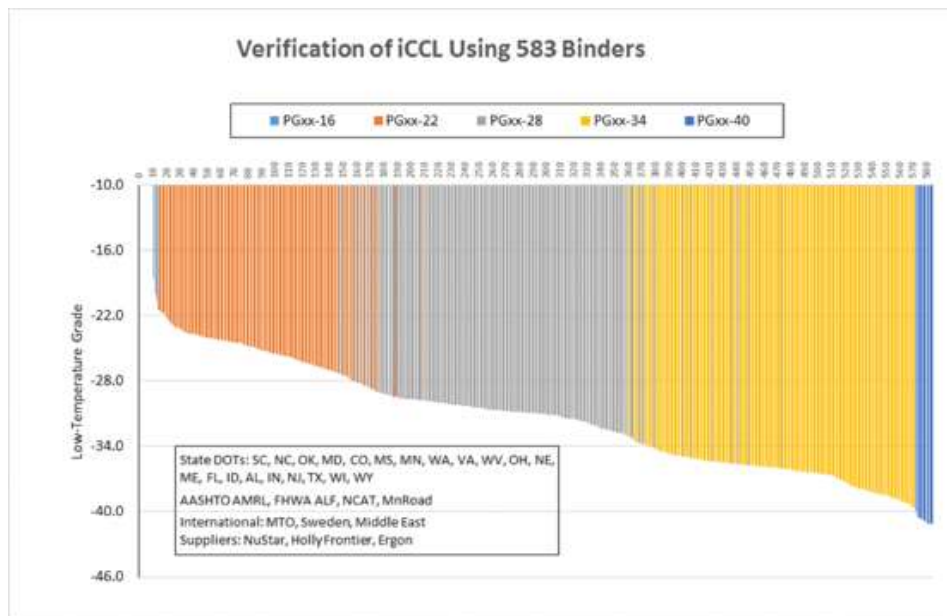


iCCL: Binder Low-Temp. PG

(*incremental Creep for Cracking at Low Temperature*)

- Provides the same Low-Temperature PG as BBR
- Performed on original/PAV asphalt and extracted binder
- Needs 30 mg of binder that is easily mounted
- Ideal for small quantity of extracted binder
- No need for molding and de-molding
- A quick screening tool for QA/QC
- Significantly faster, safer, more reliable and less costly.
- Results with three times higher precision than BBR



Comparisons of BBR and iCCL

Test Variables	BBR	iCCL
Testing Time/Sample	>2 hours	30 min.
Sample Preparations	Molding	None
Sample Storage Limit	< 2 hours	None
Technician Time	2 hours	2 min.
Calibration/Verification	Every Test	3 months
Liquid Anti-Freeze	Yes	None
Air Pressure	Yes	None
Test Variability	7%	2.5%
De-Gassing	Yes	None
Testing Original Binder	No	Yes
Extracted Binder Needed	> 10 grams	30 mg